ARCHIVES OF DISEASE IN CHILDHOOD

EDITORS

DOUGLAS GAIRDNER and ROGER ROBINSON

EDITORIAL COMMITTEE

N. D. BARNES
A. J. BARSON
J. F. R. BENTLEY
H. BICKEL
JUDITH M. CHESSELLS
C. A. CLARKE
PAMELA A. DAVIES
J. A. DUDGEON
S. GODFREY
R. G. HENDRICKSE
S. R. MEADOW
PATRICIA H. MORRIS JONES
A. P. MOWAT
A. D. PATRICK
OLIVE SCOTT
H. K. A. VISSER
J. A. WALKER-SMITH
C. B. S. WOOD

PRESIDENT OF THE BRITISH PAEDIATRIC ASSOCIATION

EDITOR, *British Medical Journal*

TECHNICAL EDITOR: JENNIFER ORTON

VOLUME 53, 1978

BRITISH MEDICAL ASSOCIATION · TAVISTOCK SQUARE · LONDON WC1H 9JR

No. 1 January 1978

Editorial

The British Paediatric Association, the British Medical Association, and the *Archives* 1

Original articles

Computerised axial tomography and acute neurological problems of childhood. R. E. Day, J. L. G. Thomson, and W. H. Schutt 2

Long-term study of smoking by secondary schoolchildren. M. H. Banks, B. R. Bewley, J. M. Bland, J. R. Dean, and V. Pollard 12

Cows' milk protein-sensitive enteropathy: combined clinical and histological criteria for diagnosis. N. Iyngkaran, M. J. Robinson, K. Prathap, E. Sumithran, and M. Yadav 20

Fetal growth in different racial groups. J. Alvear and O. G. Brooke 27

Echovirus encephalitis and myositis in primary immunoglobulin deficiency. A. D. B. Webster, J. H. Tripp, A. R. Hayward, A. D. Dayan, R. Doshi, E. H. MacIntyre, and D. A. J. Tyrrell 33

Mycoplasma pneumoniae infections in children. D. Stevens, P. G. F. Swift, P. G. B. Johnston, P. J. Kearney, Beryl D. Corner, and D. Burman 38

Treatment of Bartter's syndrome in early childhood with prostaglandin synthetase inhibitors. J. M. Littlewood, M. R. Lee, and S. R. Meadow 43

Factors influencing jaundice in immigrant Greek infants. J. H. Drew, Jean Barrie, I. Horacek, and W. H. Kitchen 49

Simple method for measuring oxygen consumption in babies. O. R. C. Smales 53

Thermoregulation in babies immediately after birth. O. R. C. Smales and R. Kime 58

Motor nerve conduction velocities in Leigh's encephalomyelopathy. A. Moosa 62

Psychological determinants of infantile pyloric stenosis. Susan I. Revill and J. A. Dodge 66

Current topics

The practice of infant feeding among Asian immigrants. S. K. M. Jivani 69

Short reports

Diagnosis of meconium aspiration by spectrophotometric analysis of urine. M. Dehan, Jeanne Francoual, and A. Lindenbaum 74

Establishing demand feeding in hospital. P. Cruse, P. Yudkin, and J. D. Baum 76

Oxidative metabolism in cord-blood polymorphonuclear leucocytes. R. G. Strauss and M. J. Seifert 78

Case of congenital nonobstructive, nonhaemolytic jaundice; successful long-term phototherapy at home. M. Odièvre, F. Trivin, N. Eliot, and D. Alagille 81

Serial lung function studies in cystic fibrosis in the first 5 years of life. S. Godfrey, M. Mearns, and G. Howlett 83

Hyponatraemia in children with febrile convulsions. N. Rutter and M. J. O'Callaghan 85

Correspondence 87

No. 2 February 1978

Annotations

Drugs, infections, and congenital abnormalities. P. W. Smithells 93

Role of circulating soluble immune complexes in disease. R. J. Levinsky 96

Original articles

Effect of children's and parents' smoking on respiratory symptoms. M. Bland, Beulah R. Bewley, Virginia Pollard, and M. H. Banks 100

Viral infection as a precipitant of wheeze in children: combined home and hospital study. I. Mitchell, J. M. Inglis, and H. Simpson 106

Management of nephroblastoma in childhood: clinical study of two forms of maintenance chemotherapy Medical Research Council's Working Party on Embryonal Tumours in Childhood 112

Computed tomography in diagnosis of abdominal masses in infancy and childhood: comparison with excretory urography. J. C. Leonidas, Barbara L. Carter, L. L. Leape, M. L. Ramenofsky, and A. M. Schwartz 120

Endocrine studies in Fanconi's anaemia: report of 4 cases. A. Aynsley-Green, M. Zachmann, E. A. Werder, Ruth Illig, and Andrea Prader 126

Management of congenital adrenal hyperplasia: urinary steroid estimations—review of their value. C. C. Bailey, G. M. Komrower, and M. Palmer 132

Serial determinations of oxygen profiles in infants with respiratory distress. W. L. Holman, A. N. Krauss, and P. A. M. Auld 136

Occurrence of circulating immune complexes in β-thalassaemia major. P. Casali, P. Borzini, D. Vergani, G. Mieli-Vergani, G. Masera, and C. Zanussi 141

Defective neutrophil chemotaxis and raised serum IgE levels in a child with recurrent bacterial infections and eczema: influence of levamisole. J. De Cree, L. Emmery, J. Timmermans, R. Eeckels, W. De Cock, and H. Verhaegen 144

Cows' milk protein-sensitive enteropathy: an important factor in prolonging diarrhoea of acute infective enteritis in early infancy. N. Iyngkaran, M. J. Robinson, E. Sumithran, S. K. Lam, S. D. Puthucheary, and M. Yadav 150

Structure of periadrenal brown fat in childhood in both expected and cot deaths. J. L. Emery and Fay Dinsdale 154

Assessing chances of hospital admission in preschool children: critical evaluation. M. E. J. Wadsworth and S. Morris 159

Aortic thrombosis in the newborn period. G. T. Knowlson and H. B. Marsden 164

No. 2 February 1978—continued

Short reports

Effect of practical timing of dosage on theophylline blood levels in asthmatic children treated with choline theophyllinate. S. A. McKenzie, E. Baillie, and S. Godfrey 167

Computer system for recording and display of data from newborn infants with respiratory illnesses. L. P. Allen, J. S. Clifton, D. Ingram, P. N. Le Souëf, E. O. R. Reynolds, and P. D. Wimberley 169

Effect of phototherapy on thermal environment of the newborn. O. R. C. Smales 172

Severe arrhythmias in Coxsackievirus B3 myopericarditis. C. Ward 174

Improved tube for nasojejunal feeding in low birthweight infants. D. Della Pietra, V. Gargiula, and F. Tancredi 176

Tubular duplication of the bowel: use of technetium 99m pertechnetate in diagnosis. D. C. Hitch, B. Shandling, and D. L. Gilday 178

Acute neonatal and benign citrullinaemia in one sibship. E. A. Burgess, V. G. Oberholzer, J. M. Semmens, and J. Stern 179

Correspondence 182

Book reviews 184

No. 3 March 1978

Annotation

Faecal soiling and anal achalasia. T. F. R. Bentley 185

Review article

The first feed of low birthweight infants: changing attitudes in the twentieth century. D. P. Davies 187

Original articles

Reflex anoxic seizures ('white breath-holding'): nonepileptic vagal attacks. J. B. P. Stephenson 193

Fundamental voice frequency during normal and abnormal growth, and after androgen treatment. V. Vuorenkoski, Hanna Liisa Lenko, P. Tjernlund, Liisa Vuorenkoski, and J. Perheentupa 201

Renal scarring and vesicoureteric reflux. K. J. Shah, D. G. Robins, and R. H. R. White 210

Fat embolism in infancy after intravenous fat infusions. A. J. Barson, M. L. Chiswick, and Caroline M. Doig 218

Tests of skeletal muscle function in children. G. P. Hosking, A. Young, V. Dubowitz, and R. H. T. Edwards 224

Neonatal hyperammonaemia with complete absence of liver carbamyl phosphate synthetase activity. S. Mantagos, Sophia Tsagaraki, E. Ann Burgess, V. Oberholzer, T. Palmer, Joanna Sacks, S. Baibas, and T. Valaes 230

Luteinising hormone-releasing hormone nasal spray as therapy for undescended testicle. P. Pirazzoli, F. Zappulla, F. Bernardi, M. P. Villa, D. Aleksandrowicz, A. Scandola, P. Stancari, A. Cicognani, and E. Cacciari 235

Effect of storage and heat on antimicrobial proteins in human milk. T. J. Evans, H. C. Ryley, L. M. Neale, J. A. Dodge, and V. M. Lewarne 239

Homocystinuria in New South Wales. Bridget Wilcken and Gillian Turner 242

Tracheal compression as a cause of respiratory symptoms after repair of oesophageal atresia. R. C. M. Cook and G. H. Bush 246

Short reports

Plasma ACTH and melanocyte-stimulating hormone in nail pigmentation. Shoji Arakawa, T. Takamatsu, S. Imashuku, and T. Kusunoki 249

Early onset of homozygous β°-thalassaemia associated with neonatal jaundice. M. Furbetta, P. Cossu, A. Angius, G. Congiu, A. Ximenes, and A. Cao 250

Chronic myeloid leukaemia in a child: a closely observed case. I. M. Hann, D. W. Gorst, P. Morris Jones, and D. I. K. Evans 252

Familial haemolytic uraemic syndrome. A. D. Edelsten and S. Tuck 255

Congenital heart block and hypothyroidism. A. A. Syed 256

Paediatric Research Society 259

Neonatal Society 264

Correspondence 267

Referees 268

No. 4 April 1978

Annotation

Hearing defects in preterm infants. F. J. Schulte and E. Stennert 269

Original articles

Ligation of patent ductus arteriosus in the very low birthweight newborn infant. R. W. I. Cooke, B. Gribbin, A. J. Gunning, and D. Pickering 271

Preventable death in oesophageal atresia. R. J. Brereton, R. B. Zachary, and L. Spitz 276

Oral rehydration in infantile diarrhoea: controlled trial of a low sodium glucose electrolyte solution. A. Chatterjee, D. Mahalanabis, K. N. Jalan, T. K. Maitra, S. K. Agarwal, B. Dutta, S. P. Khatua, and D. K. Bagchi 284

No. 4 April 1978—continued

Nutrition, sex, gestational age, and hair growth in babies. H. M. Berger, J. King, S. Doughty, and B. A. Wharton 290
Increase in hospitalisation for childhood asthma. H. R. Anderson 295
Combined test of anterior pituitary function in children. D. C. L. Savage, P. G. F. Swift, P. G. B. Johnston, D. J. Goldie, and D. Murphy 301
Gonadotrophin release in untreated congenital virilising adrenal hyperplasia. A. Pertzelan, Z. Laron, M. Adler-Bier, R. Prager-Lewin, and H. Kaufman 305
Neonatal hypocalcaemia associated with maternal hyperparathyroidism: new pathogenetic observations. B. Brock Jacobsen, E. Terslev, B. Lund, and O. Helmer Sørensen 308
Normocalcaemic pseudohypoparathyroidism with unusual phenotype. J. M. Gertner, S. Tomlinson, and J. Gonzalez-Macias 312
Haemophilus influenzae type b pneumonia. Ellen R. Wald and M. M. Levine 316
Value of serum ferritin estimation in sickle cell anaemia. M. A. M. Hussain, L. R. Davis, M. Laulicht, and A. V. Hoffbrand 319
Clinical applications of serum theophylline measurement by high pressure liquid chromatography. Sheila A. McKenzie, A. T. Edmunds, Eivor Baillie, and J. H. Meek 322
Deafness and biochemical imbalance after burns treatment with topical antibiotics in young children: report of 6 cases. M. F. M. Bamford and L. F. Jones 326
Simple and versatile method for measuring oxygen consumption in infants. J. M. Evans, O. P. Gray, B. M. Holland, and C. A. J. Wardrop 330
Dosage schedule of gentamicin for chronic renal insufficiency in children. H. Yoshioka, M. Takimoto, I. Matsuda, and S. Hattori 334

Personal practice
Congenital choanal atresia. L. K. Winther 338

Short reports
Late functioning adrenocortical carcinoma in a 5-year-old girl. H. B. Marsden, P. Morris Jones, P. D. Lees, and I. M. Hann 341
Unusual case of adrenal cortical carcinoma in a female infant. E. B. Visconti, R. W. Peters, A. Cangir, G. L. Zorn Jr, and S. Fisher 342
Loss of energy during continuous infusions of breast milk. O. G. Brooke and J. Barley 344
Systemic lupus erythematosus presenting as chorea. L. F. Kukla, C. Reddy, Geraldine Silkalns, and M. Prasad 345
Serum 25-hydroxyvitamin D levels in thalassaemia. Stella Tsitoura, Nineta Amarilio, P. Lapatsanis, S. Pantelakis, and S. Doxiadis 347
Correspondence 349
Book reviews 354

No. 5 May 1978

Review article
Rotavirus gastroenteritis. J. Walker-Smith 355

Looking back
A notable case of nephrosis. D. Gairdner 363

Original articles
Clinical applications of serum carcinoembryonic antigen and alpha-fetoprotein levels in children with solid tumours. J. R. Mann, G. E. Lakin, J. C. Leonard, H. A. Rawlinson, S. G. N. Richardson, J. J. Corkery, A. H. Cameron, and K. J. Shah 366
Cows' milk-sensitive enteropathy. J. Walker-Smith, Mary Harrison, Anne Kilby, A. Phillips, and N. France 375
Value of monitoring plasma salicylate levels in treating juvenile rheumatoid arthritis: observations in 42 cases. M. Bardare, G. U. Cislaghi, M. Mandelli, and F. Sereni 381
Ataxia telangiectasia: evaluation of radiosensitivity in cultured skin fibroblasts as a diagnostic test. R. Cox, G. P. Hosking, and J. Wilson 386
Intellectual abilities among survivors of childhood leukaemia as a function of CNS irradiation. Christine Eiser 391
Accidential intra-arterial injection. J. M. Wynne, G. L. Williams, and B. A. H. Ellman 396
Urinary excretion of glomerular basement membrane antigens in Alport's syndrome: a new diagnostic approach. G. Lubec, E. Balzar, G. Weissenbacher, and G. Syré 401
Metabolic response to cold in the newborn. O. R. C. Smales and D. Hull 407
Clubbing and whipworm infestation. M. D. Bowie, A. Morison, J. D. Ireland, and P. J. Duys 411
Acquired toxoplasmosis in children. B. McNicholl and J. Flynn 414
Serum complement components in Henoch-Schönlein purpura. M. Garcia-Fuentes, Angela Martin, C. Chantler, and D. Gwyn Williams 417

Short reports
Value of 1-hour blood-xylose test in diagnosis of childhood coeliac disease. U. Schaad, H. Gaze, and B. Hadorn 420
Persistent neonatal hypoglycaemia due to glucagon deficiency. L. A. Kollée, L. A. Monnens, V. Cejka, and R. H. Wilms 422
Pulmonary interstitial emphysema requiring lobectomy: complication of assisted ventilation. J. H. Drew, L. I. Landau, C. M. Acton, M. Kent, and P. E. Campbell 424

No. 5 May 1978—continued

Infantile cortical hyperostosis with raised immunoglobulins. V. Ramchander and R. Ramkissoon 426
Peripheral pulmonary artery stenosis. D. M. Salisbury and J. W. Keeling 428
Controlled trial of disodium cromoglycate in prevention of relapse of steroid-responsive nephrotic syndrome of childhood. R. S. Trompeter, P. D. Thomson, T. M. Barratt, and J. F. Soothill 430
Paediatric Pathology Society 433
Correspondence 438
Book reviews 439

No. 6 June 1978

Editorial
Research involving children—ethics, the law, and the climate of opinion 441

Medicolegal
Legality of consent to nontherapeutic medical research on infants and young children. G. Dworkin 443

Annotation
Chlamydial infections in paediatrics. G. L. Ridgway 447

Original articles
Gluten challenge in treated coeliac disease. S. M. Packer, V. Charlton, J. W. Keeling, R. A. Risdon, D. Ogilvie, R. J. Rowlatt, V. F. Larcher, and J. T. Harries 449
Usefulness of continuous positive airway pressure in differential diagnosis of cardiac from pulmonary cyanosis in newborn infants. P. S. Rao, Brenda L. Marino, and A. F. Robertson III 456
Renin and aldosterone response in human newborns to acute change in blood volume. M. J. Dillon, K. B. Rajani, V. Shah, J. M. Ryness, and R. D. G. Milner 461
Recurrent wheezing in the preschool child. W. Lenney and A. D. Milner 468
Nebulised sodium cromoglycate in the preschool wheezy child. W. Lenney and A. D. Milner 474
Reduction of bile acid loss in cystic fibrosis by dietary means. Christine A. Smalley, G. A. Brown, M. E. T. Parkes, Hazel Tease, Valerie Brookes, and Charlotte M. Anderson 477
Sweat testing for cystic fibrosis: diagnostic screening with a combination chloride ion-selective electrode. P. T. Bray, G. C. F. Clark, G. J. Moody, G. Thomas, and J. D. R. Thomas 483
Growth hormone release during sleep in growth-retarded children with normal response to pharmacological tests. E. Cacciari, G. Coccagna, A. Cicognani, P. Pirazzoli, R. Gallassi, P. Farneti, F. Bernardi, F. Zappulla, G. Gobbi, and P. Verucchi 487
Growth impairment in children treated for brain tumours. S. M. Shalet, C. G. Beardwell, B. M. Aarons, D. Pearson, and P. H. Morris Jones 491
Goitre and hypothyroidism in the newborn after cutaneous absorption of iodine. J. P. Chabrolle and A. Rossier 495
Isolated ACTH deficiency: metabolic and endocrine studies in a 7-year-old boy. A. Aynsley-Green, M. W. Moncrieff, S. Ratter, C. R. Benedict, C. N. Storrs, and R. H. Wilkinson 499
Danger of bucolome in infants with hyperbilirubinaemia: experimental evidence. R. Semba, H. Sato, and H. Yamamura 503

Short reports
Clinical study of prolonged jaundice in breast- and bottle-fed babies. C. R. Winfield and R. MacFaul 506
Respiratory depression due to unsuspected narcotic ingestion treated with naloxone. D. A. Curnock 508
Estimation of gestational age at birth: comparison of two methods. G. L. Serfontein and A. M. Jaroszewicz 509
Increased urinary catecholamines in an infant with the diencephalic syndrome. T. Karpathios, P. Nicolaidou, A. Fretzagias, S. Haidas, and T. Thomaidis 511
I-cell disease. P. J. Milla 513
Use of the diving reflex to treat supraventricular tachycardia in an infant. I. F. M. Grahame and I. M. Hann 515
Neonatal Society 517
Scottish Paediatric Society 518
Correspondence 520
Book reviews 524

No. 7 July 1978

Annotations
Changing concepts in asthma. A. D. Milner 525
Antigen handling by the gut. W. A. Walker 527

Original articles
At what age do bronchodilator drugs work? W. Lenney and A. D. Milner 532
Congenital cytomegalovirus infection in newborn infants of mothers infected before pregnancy. K. Schopfer, E. Lauber, and U. Krech 536
Group B streptococci in pharyngeal aspirates at birth and the early detection of neonatal sepsis. Mary P. E. Slack and R. T. Mayon-White 540

No. 7 July 1978—continued

Effects of delivery by caesarean section on lung mechanics and lung volume in the human neonate. A. D. Milner, R. A. Saunders, and I. E. Hopkin 545
Percutaneous catheterisation of the radial artery in newborn babies using transillumination. R. G. Pearse 549
Effect of heat treatment of human milk on absorption of nitrogen, fat, sodium, calcium, and phosphorus by preterm infants. S. Williamson, E. Finucane, H. Ellis, and H. R. Gamsu 555
Neurological sequelae in newborn babies after perinatal asphyxia. S. W. De Souza and B. Richards 564
Value of screening for deafness in the first year of life. R. Boothman and N. Orr 570
Behavioural treatment of hyperactive children. R. T. Bidder, O. P. Gray, and R. Newcombe 574
Successful restoration of immunity in the DiGeorge syndrome with fetal thymic epithelial transplant. Y. H. Thong, Evelyn F. Robertson, H. G. Rischbieth, G. J. Smith, G. F. Binns, K. Cheney, and A. C. Pollard 580
Position of the apex beat in childhood. A. U. Antia, S. R. Maxwell, A. Gough, and O. Ayeni 585

Short reports

Repeat lumbar puncture in the diagnosis of meningitis. A. D. Kindley and F. Harris 590
Significance of intracranial bruits in neonates, infants, and young children. M. Cohen and S. E. Levin 592
Propranolol as an antihypertensive agent in children. W. R. Griswold, R. McNeal, S. A. Mendoza, B. B. Sellers, and S. Higgins 594
Heights and weights of West Indian children with the sickle cell trait. M. T. Ashcroft, P. Desai, G. A. C. Grell, B. E. Serjeant, and G. R. Serjeant 596
Weaning very low birthweight infants from mechanical ventilation using intermittent mandatory ventilation and theophylline. P. A. Barr 598
Right-sided congenital diaphragmatic herniae presenting as pleural effusions in the newborn: dangers and pitfalls. H. W. Chilton, J. H. T. Chang, M. D. Jones Jr, and J. G. Brooks 600

Correspondence 604
Book reviews 608

No. 8 August 1978

James Spence Medallist, 1978 609

Original articles

Neurological abnormalities in patients treated for hypothyroidism from early life. R. MacFaul, S. Dorner, E. M. Brett, and D. B. Grant 611
Reverse triiodothyronine, thyroid hormone, and thyrotrophin concentrations in placental cord blood. P. G. H. Byfield, Daphne Bird, R. Yepez, Marianne Land, and R. L. Himsworth 620
Clinicopathological findings in patients with primary and secondary defects of neutrophil mobility. A. Farhoudi, B. A. M. Harvey, and J. F. Soothill 625
Immunological studies in cystic fibrosis. M. W. Turner, J. O. Warner, C. R. Stokes, and A. P. Norman 631
PABA screening test for exocrine pancreatic function in infants and children. M. Sacher, A. Kobsa, and D. H. Shmerling 639
Acute inflammatory bowel disease in childhood: a new disease? P. D. Manuel, Anne Kilby, D. Candy, J. A. Walker-Smith, and J. T. Harries 642
Proctosigmoiditis and coeliac disease. Nicoletta Ansaldi, Bruna Santini, D. Dell'Olio, and F. Levis 645
Evaluation of the Sheffield system for identifying children at risk from unexpected death in infancy. J. R. Oakley, C. J. Tavaré, and A. N. Stanton 649
Students' assessment of paediatric teaching and their opinions 7 years later. S. R. Meadow 653
Alternating hemiplegia: complicated migraine of infancy. G. P. Hosking, N. P. C. Cavanagh, and J. Wilson 656
Prophylactic diazepam or phenobarbitone in febrile convulsions: a prospective, controlled study. F. U. Knudsen and S. Vestermark 660
Familial syndrome with panhypopituitarism, hypoplasia of the hypophysis, and poorly developed sella turcica. P. Sipponen, S. Similä, Y. Collan, T. Autere, and R. Herva 664
Concealed pre-excitation causing paroxysmal reciprocating atrioventricular tachycardia in infancy. K. A. Hallidie-Smith, D. Krikler, and A. Mitchell 668

Short reports

Tetrahydrobiopterin therapy of atypical phenylketonuria due to defective dihydrobiopterin biosynthesis J. Schaub, S. Däumling, H-Ch. Curtius, A. Niederwieser, K. Bartholomé, M. Viscontini, B. Schircks, and J. H. Bieri 674
Diagnosis of phaeochromocytoma after ingestion of imipramine. Jacqueline Mok and I. Swann 676
Sucrase-isomaltase deficiency. A follow-up report. Anne Kilby, E. Ann Burgess, Sally Wigglesworth, and J. A. Walker-Smith 677
Infantile spasms and HLA antigens. P. Howitz and P. Platz 680
Familial neurodegenerative disorder associated with raised urinary vanillylmandelic acid. I. Young and G. P. Hosking 682

No. 8 August 1978—continued

Symposium report

Protective properties of human milk and the effects of processing on them 684

Paediatric Research Society 687

Correspondence 692

Book reviews 695

No. 9 September 1978

Annotations

Solute and calorie loading in young infants; short- and long-term effects. L. S. Taitz 697

The incomplete male. M. O. Savage and D. B. Grant 701

Original articles

Treatment of acute viral croup. W. Lenney and A. D. Milner 704

Alpha and beta adrenergic stimulants in bronchiolitis and wheezy bronchitis in children under 18 months of age. W. Lenney and A. D. Milner 707

House dust mite sensitivity in childhood asthma. J. O. Warner and J. F. Price 710

Severe ventilatory failure in asthma in children. Experience of 13 episodes over 6 years. H. Simpson, I. Mitchell, J. M. Inglis, and D. J. Grubb 714

Cockayne's syndrome and emphysema. Mary Cunningham, S. Godfrey, and W. M. V. Moffat 722

Nonstructural heart disease in the newborn. Observations during one year in a perinatal service. R. D. Rowe, T. Izukawa, H. C. Mulholland, K. R. Bloom, D. H. Cook, and P. R. Swyer 726

Metabolic and endocrine events at the time of the first feed of human milk in preterm and term infants. A. Lucas, S. R. Bloom, and A. Aynsley-Green 731

Neonatal tetanus treated with high dosage diazepam. B. H. Khoo, E. L. Lee, and K. L. Lam 737

Case of tumour rickets. M. W. Moncrieff, D. P. Brenton, and L. J. H. Arthur 740

Infection with hepatitis B virus in infancy. A longitudinal study of 8 cases. P. Skinhøj 746

Short reports

Growth and milk intake of normal infants. T. J. Evans 749

5-α-Reductase deficiency causing male pseudohermaphroditism. S. A. Greene, Elizabeth Symes, and C. G. D. Brook 751

Congenital dyserythropoietic anaemia type I in two brothers presenting with neonatal jaundice. H. N. Lay, P. J. Pemberton, and H. B. Hilton 753

One-hour blood-xylose in cystic fibrosis. U. Schaad, R. Kraemer, H. Gaze, and B. Hadorn 756

Theophylline toxicity in a neonate. V. F. Larcher, H. R. Gamsu, M. C. Sanderson, M. R. Drayton, and B. Sandhu 757

Aortic homograft valve replacement for postendocarditis aortic incompetence in early childhood. C. H. Anyanwu, P. Adams, R. Radley-Smith, and M. Yacoub 759

Correspondence 761

Book reviews 767

No. 10 October 1978

Original articles

Stress response and its relationship to cystic (pseudofollicular) change in the definitive cortex of the adrenal gland in stillborn infants. D. J. de Sa 769

Effects of an artificial diet on growth of patients with cystic fibrosis. Janet G. Yassa, R. Prosser, and J. A. Dodge 777

Calcium intake in the first five days of life in the low birthweight infant. M. Moya and E. Doménech 784

Failure to thrive or failure to rear? M. J. O'Callaghan and D. Hull 788

Pyridoxol metabolism in vitamin B6-responsive convulsions of early infancy. A. Heeley, R. J. P. Pugh, Barbara E. Clayton, Jean Shepherd, and J. Wilson 794

X-linked ichthyosis. J. G. Koppe, A. Marinković-Ilsen, Y. Rijken, W. P. De Groot, and A. C. Jöbsis 803

Current topics

Hazards to children in traffic: a paediatrician looks at road accidents. R. H. Jackson 807

Short reports

Immunodeficiency associated with laevocardia, bronchiectasis, and paranasal sinus anomalies. R. K. Chandra 814

Spontaneous maturation of stage IV-S neuroblastoma. L. Rangecroft, I. Lauder, and J. Wagget 815

Hypomagnesaemic hypocalcaemia with hypokalaemia caused by treatment with high dose gentamicin. C. J. H. Kelnar, W. S. Taor, D. J. Reynolds, D. R. Smith, B. M. Slavin, and C. G. D. Brook 817

Infrared irradiance from phototherapy units and the effect on osmolality of serum and urine in term infants. A. Habel and I. Swann 820

Slow growth of an untreated Wilms's tumour in the adolescent. P. C. Rogers, Betty J. Wood, D. F. Smith, and J. M. Teasdale 822

Thermometers and rectal perforations in the neonate. J. D. Frank and S. Brown 824

No. 10 October 1978—continued

Correspondence 826
British Paediatric Association 832
Scottish Paediatric Society 841
Book reviews 842

No. 11 November 1978

Original articles

Reappraisal of linoleic acid requirement of the young infant, with particular regard to use of modified cows' milk formulae. D. J. Naismith, Susan P. Deeprose, G. Supramaniam, and M. J. H. Williams 845

Variations in the resting oxygen consumption of small babies. N. Rutter, S. M. Brown, and D. Hull 850

Nonphysiological anaemia of prematurity. C. A. J. Wardrop, Barbara M. Holland, K. E. Anne Veale, J. G. Jones, and O. P. Gray 855

Immunological events in acute measles influencing outcome. H. M. Coovadia, A. Wesley, and P. Brain 861

Hypochondroplasia. J. F. T. Glasgow, N. C. Nevin, and P. S. Thomas 868

Cystic fibrosis, atopy, and airways lability. M. Silverman, F. D. R. Hobbs, I. R. S. Gordon, and F. Carswell 873

Evaluation of methods of assisted ventilation in hyaline membrane disease. F. P. Manginello, A. E. Grassi, Sylvia Schechner, A. N. Krauss, and P. A. M. Auld 878

Chest wall sarcoma of childhood with a good prognosis. A. J. Barson, A. Ahmed, A. A. M. Gibson, and A. M. MacDonald 882

Growth and hormonal status of children treated for acute lymphoblastic leukaemia. P. G. F. Swift, P. J. Kearney, R. G. Dalton, J. A. Bullimore, M. G. Mott, and D. C. L. Savage 890

Significance of raised immunoglobulin M levels in cord blood of small-for-gestational-age infants. T. G. Matthews and C. O'Herlihy 895

Aneurysmal bone cyst: a report of three cases. C. R. Pullan, F. W. Alexander, and P. C. Halse 899

Relationship between clinical features of tricyclic antidepressant poisoning and plasma concentrations in children. P. Crome and R. A. Braithwaite 902

Short reports

Congenital nephrogenic diabetes insipidus in a baby girl. R. L. Schreiner, P. R. Skafish, S. K. Anand, and J. D. Northway 906

Heart failure apparently due to overfeeding in a neonate. F. Eyal, C. Maayan, and S. Godfrey 908

Adenoidectomy: an evaluation of the indications. J. Hibbert and P. Stell 910

A case of paragonimiasis. A. Demetriou and B. M. Phillips 912

Faecal excretion of oligosaccharides and other carbohydrates in normal neonates. R. K. Whyte, Rosanna Homer, and C. A. Pennock 913

Correspondence 916

No. 12 December 1978

Original articles

Werdnig-Hoffmann disease: the effects of intrauterine onset on lung growth. Mary Cunningham and Janet Stocks 921

Milk pH, acid base status, and growth in babies. H. M. Berger, P. H. Scott, Carolyn Kenward, P. Scott, and B. A. Wharton 926

Mineral and trace metal supplement for use with synthetic diets based on comminuted chicken. Janet M. Thorn, P. J. Aggett, H. T. Delves, and Barbara E. Clayton 931

Improved accuracy of lactose tolerance test in children, using expired H_2 measurement. A. C. Douwes, J. Fernandes, and H. J. Degenhart 939

Serum theophylline levels in asthmatic children after oral administration of two slow-release theophylline preparations. Sheila McKenzie and E. Baillie 943

Hypothyroidism in children with cystinosis. J. R. Burke, M. M. El-Bishti, M. N. Maisey, and C. Chantler 947

Hypothalamo-pituitary hormone insufficiency associated with cleft lip and palate. A. Roitman and Z. Laron 952

Short reports

Menkes's syndrome: report of a patient treated from 21 days of age with parenteral copper. P. Daish, E. M. Wheeler, P. F. Roberts, and R. D. Jones 956

Use of salbutamol powder in childhood asthma. W. Lenney, A. D. Milner, and E. J. Hiller 958

Depigmented hair: the earliest sign of tuberous sclerosis. R. C. McWilliam and J. B. P. Stephenson 961

Bone growth in thalassaemic children. P. Lapatsanis, A. Divoli, Helene Georgaki, S. Pantelakis, and S. Doxiadis 963

Epileptic laughter with precocious puberty. M. Williams, W. Schutt, and D. Savage 965

Correspondence 967
Book reviews 970
Index 972

PEDIATRIC RESEARCH

Volume 12, No. 10 October 1978

Contents

The Relationship of Amniotic Membrane 11-Oxidoreductase Activity to Lung Maturation in the Human Fetus 957

A. K. Tanswell and B. T. Smith (Kingston, Ontario, Canada)

The findings demonstrate that in pregnancies where the fetus is destined to develop respiratory distress syndrome after delivery, the amniotic membranes are defective in their ability to produce cortisol, resulting in a possible reduction in the amount of cortisol available to the fetal lung during maturation *in utero*.

Cellular and Humoral Immunity in Cartilage-Hair Hypoplasia 961

M. Virolainen, E. Savilahti, I. Kaitila, and J. Perheentupa (Helsinki, Finland)

In an unselected series of 28 subjects with cartilage-hair hypoplasia, almost all subjects had subnormal responses in tests of cellular immunity, although most of them had no apparent unusual susceptibility to infections. This feature was a more constant feature of the syndrome than the hair abnormality.

Salivary Amylase in Cystic Fibrosis: A Marker of Disordered Autonomic Function 967

G. P. Davidson, A. Koheil, and G. G. Forstner (Toronto, Ontario, Canada)

To determine whether an increased salivary isoenzyme activity might be present in cystic fibrosis, these scientists examined total serum amylase and isoenzyme patterns from a series of patients, including cystic fibrosis (CF) patients with and without steatorrhea, patients with exocrine pancreatic insufficiency without CF (Shwachman's syndrome), and a control group who had neither CF nor pancreatic insufficiency.

The Effect of Racemic, D-Propranolol, L-Propranolol, and Practolol on the Response to Cold by the Newborn Rabbit 971

I. Dober, V. Jaszai, T. Heim, and R. D. G. Milner (Pecs, Hungary, Toronto, Canada, and Sheffield, England)

In this investigation the newborn rabbit has been used as a model to investigate the effects of propranolol, the isomers of propranolol, and practolol on the response to cold exposure.

Fetomaternal Potassium Relations in the Rat on the Twentieth Day of Gestation. II. Effects of Maternal Hypocalemia 977

A. G. Fantel (Seattle, Washington)

A study of potassium homeostatis during maternal hyypokalemia was undertaken in potassium-deficient rats on the 20th day of gestation.

Plasma 25-Hydroxyvitamin D in Familial Hypercholesterolemic Children Receiving Colestipol Resin 980

R. C. Tsang, M. S. Roginsky, M. J. Mellies, and C. J. Glueck (Cincinnati, Ohio)

The effects of colestipol, a new synthetic organic bile sequestrant polymer (U26-597A), on vitamin D metabolism have been assessed in children with familial hypercholesterolemia over a 2-year period.

Pulmonary Diffusing Capacity in Lambs During the Early Neonatal Period 983

J. M. Bissonnette, W. H. Drummond, W. K. Wickham, and J. Z. Cronan (Portland, Oregon)

When a rebreathing method to measure pulmonary diffusing capacity in neonatal lambs was employed, a significant increase in diffusing capacity was found to take place in the first day of life.

Distortions in Fetal Growth Standards 987

R. L. Naeye and J. B. Dixon (Hershey, Pennyslvania)

The findings of the present studies indicate that widely used fetal growth standards appear to include measurements from both growth-retarded neonates and from neonates older than their calculated gestational ages.

Maturation of *p*-Aminohippuric Acid Transport in the Developing Rabbit Kidney: Interrelationships of the Individual Components 992

B. R. Cole, J. T. Brocklebank, R. G. Capps, B. N. Murray, and A. M. Robson (St. Louis, Missouri)

This investigation was undertaken to examine systematically the contribution of the individual cellular mechanisms to the reduction on aryl acid excretion in the immature rabbit kidney with *p*-aminohippuric acid being used as the test aryl acid.

Abnormal Colonization of Neonates in an Intensive Care Unit: Means of Identifying Neonates at Risk of Infection 998

K. Sprunt, G. Leidy, and W. Redman (New York, New York)

Results of these studies indicate that serial throat cultures permit selection of the group of Intensive Care Unit neonates at greatest risk of infection and indicate the probable organism from which they are at risk.